

What is Claimed Is

~~Patent claims~~

1. A method for interior-space/exterior-space
5 detection of a response transmitter (20) which
communicates in wire-free fashion with a base station
(8), walls (4) of an interior space (2) being
impermeable to a frequency range, in which method two
10 frequency ranges are used for the communication between
the base station (8) and the response transmitter (20),
the walls (4) of the interior space (2) being permeable
to a first frequency range and impermeable to a second
frequency range.

2. The method as claimed in claim 1, the
15 communication from the response transmitter (20) to the
base station (8) taking place in the first frequency
range.

3. The method as claimed in claim 1 or 2, the base
station (8) transmitting a communication signal in the
20 first frequency range and a location interrogation
signal in the second frequency range.

4. The method as claimed in one of claims 1 to 3,
the base station (8) transmitting location
interrogation signals selectively from inside or
25 outside the interior space (2).

5. The method as claimed in claims 3 or 4, the
response transmitter (20) being woken up using the
location interrogation signal.

6. A communications system containing a base
30 station (8) with a transmitter/receiver unit (10) for
communication signals and a transmitter unit (14) for
location interrogation signals, a response transmitter
(20) with a transmitter/receiver unit (22) for the
communication signals and a receiver unit (26) for
35 location interrogation signals, and an interior space
(2) whose walls (4) are impermeable to one frequency
range, the communication signals being transmitted and

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8. The communications system as claimed in claim 6 or 7, the response transmitter (20) containing code data which, for its identification, it transmits collectively in response to a communications interrogation signal.

9. The communications system as claimed in claim 8, the communications system being a component of an anti-theft system of a motor vehicle, the base station (8) being in the motor vehicle and the response transmitter (20) being carried by a person.

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